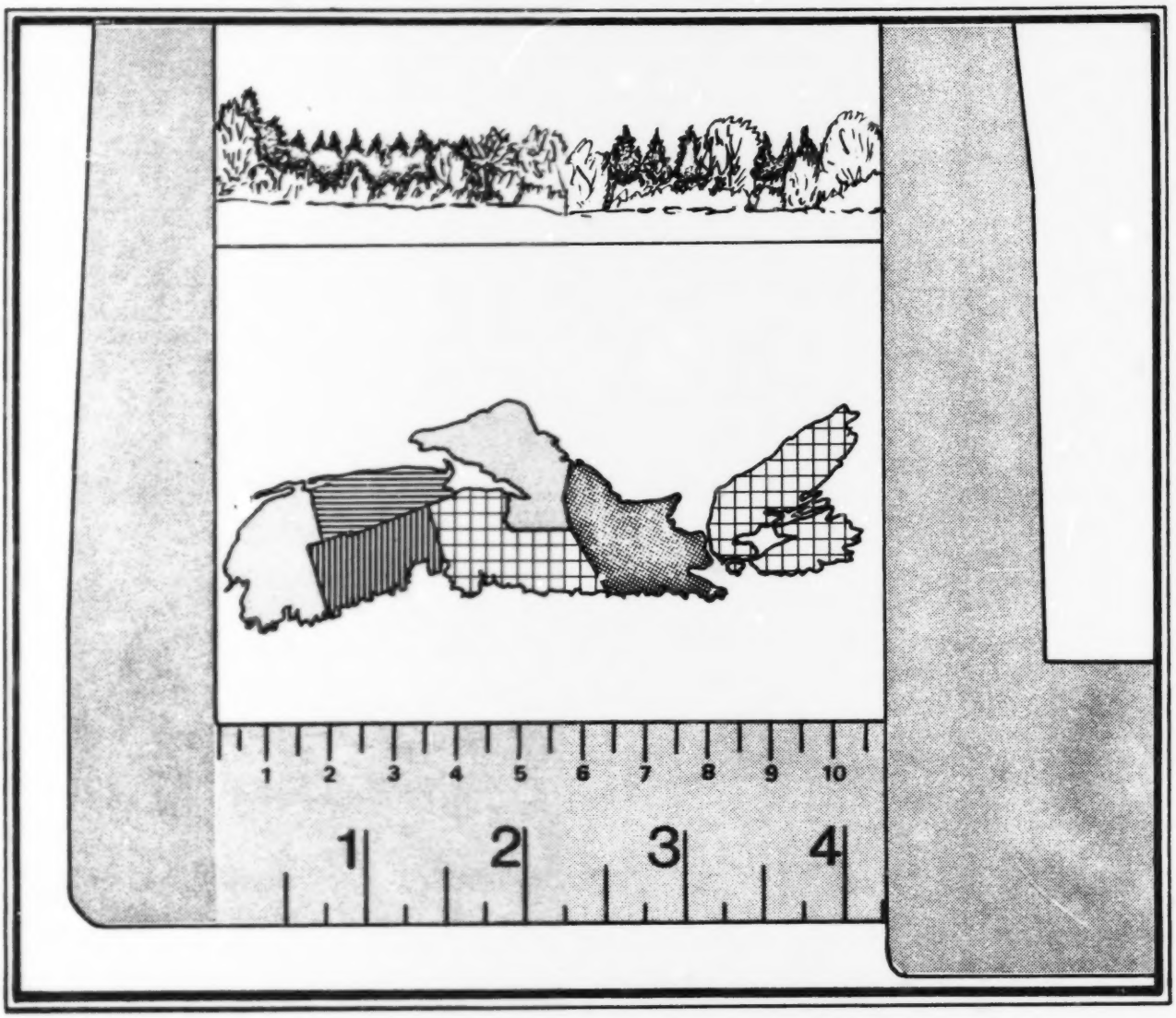
INFORMATION REPORT

NOVA SCOTIA FOREST INVENTORY

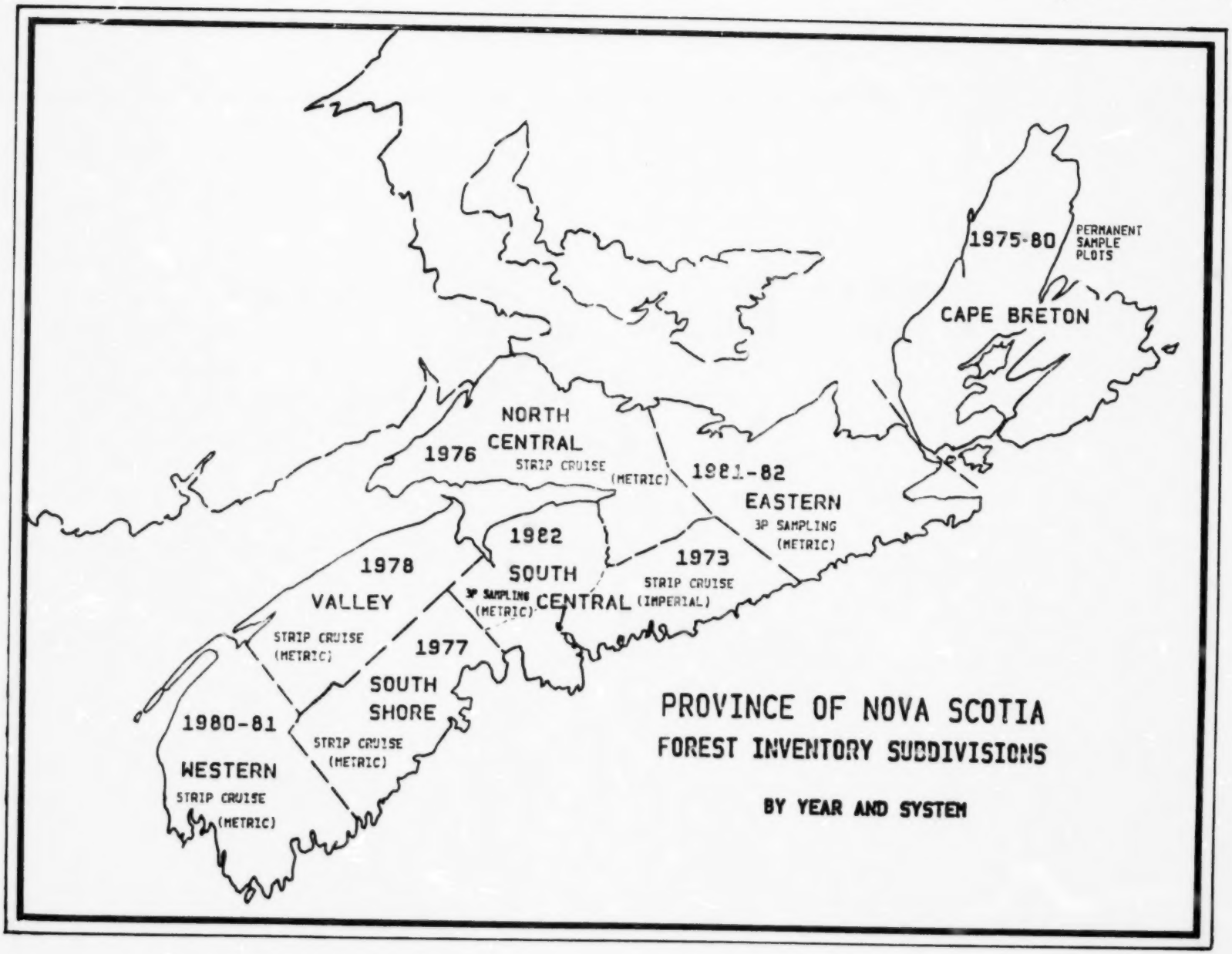
PROVINCIAL SUMMARY

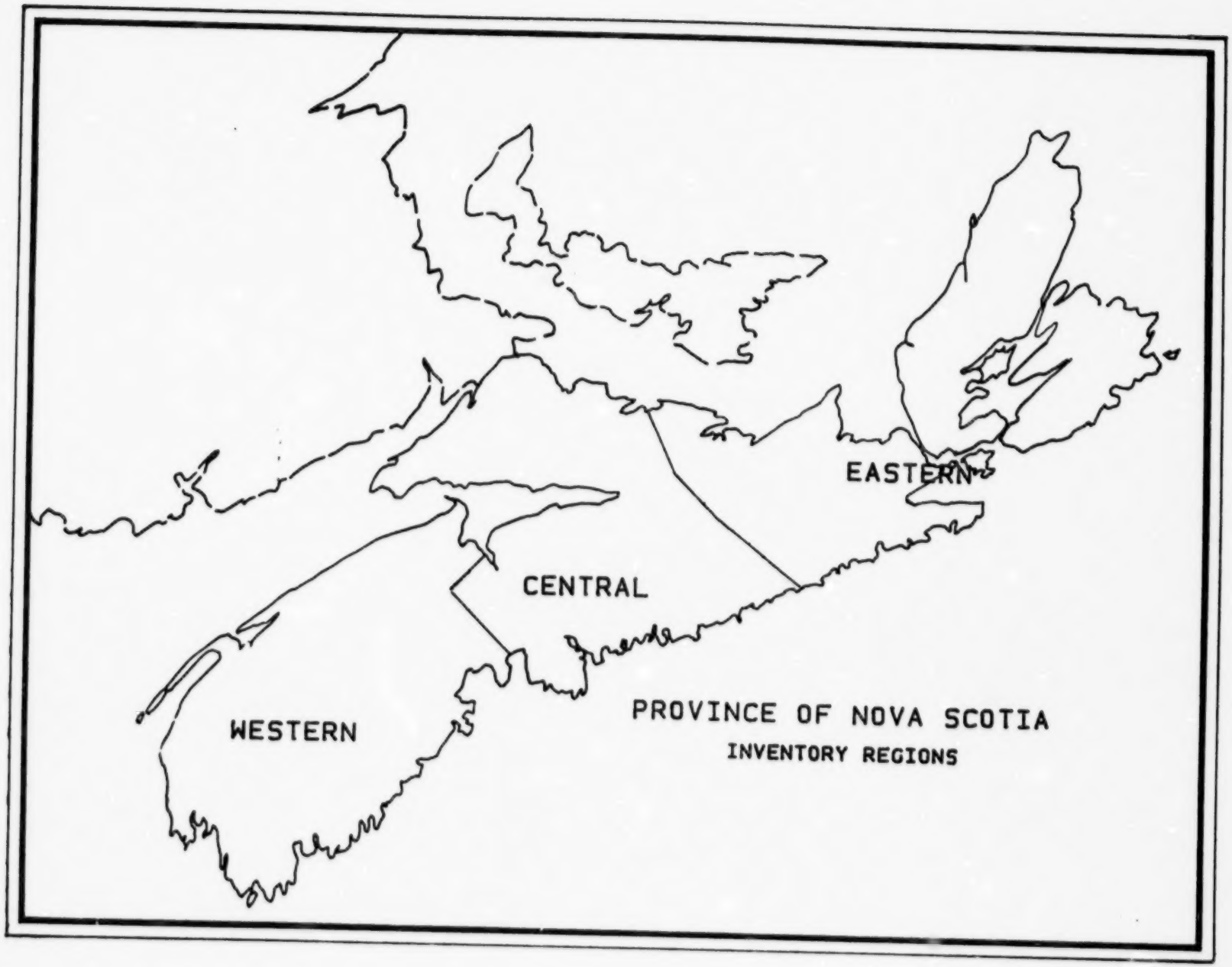
1975 - 1982



Nova Scotia
Department of Lands and Forests

Hon. Ken Streatch - Minister
D. L. Eldridge Deputy Minister


1975-80
PERMANENT SAMPLE PLOTS
CAPE BRETON
NORTH CENTRAL
1976
STRIP CRUISE (METRIC)
1981-82
EASTERN
3P SAMPLING (METRIC)
1982
SOUTH CENTRAL
3P SAMPLING (METRIC)
1973
STRIP CRUISE (IMPERIAL)
1978
VALLEY
STRIP CRUISE (METRIC)
1977
SOUTH SHORE
STRIP CRUISE (METRIC)
1980-81
WESTERN
STRIP CRUISE (METRIC)
PROVINCE OF NOVA SCOTIA
FOREST INVENTORY SUBDIVISIONS
BY YEAR AND SYSTEM


EASTERN
CENTRAL
WESTERN
PROVINCE OF NOVA SCOTIA
INVENTORY REGIONS

INFORMATION REPORT

NOVA SCOTIA FOREST INVENTORY
PROVINCIAL SUMMARY
1975-1982

Forest Resources Planning & Mensuration Division
P.O. Box 68, Truro
Nova Scotia B2N 5B8

September 1983

LIST OF TABLES

		Page
1.	Nova Scotia 1975-82 Area data in hectares by Ownership & Land Class	6
2.	Nova Scotia 1975-82 Area data in hectares by Ownership & Age Class	6
3.	Nova Scotia 1975-82 Volume data in cubic metres by Ownership & Cover Type	7
4.	Nova Scotia 1975-82 Volume data in cubic metres by Ownership & Species	8
5.	Eastern Nova Scotia 1975-82 Area data in hectares by Ownership & Land Class	9
6.	Eastern Nova Scotia 1975-82 Area data in hectares by Ownership & Age Class	9
7.	Eastern Nova Scotia 1975-82 Volume data in cubic metres by Ownership & Cover Type	10
8.	Eastern Nova Scotia 1975-82 Volume data in cubic metres by Ownership & Species	11
9.	Central Nova Scotia 1975-76, 1982 Area data in hectares by Ownership & Land Class	12
10.	Central Nova Scotia 1975-76, 1982 Area data in hectares by Ownership & Age Class	12
11.	Central Nova Scotia 1975-76, 1982 Volume Data in cubic metres by Ownership & Cover Type	13
12.	Central Nova Scotia 1975-76, 1982 Volume Data in cubic metres by Ownership & Species	14
13.	Western Nova Scotia 1977-80 Area data in hectares by Ownership & Land Class	15
14.	Western Nova Scotia 1977-80 Area data in hectares by Ownership & Age Class	15
15.	Western Nova Scotia 1977-80 Volume data in cubic metres by Ownership & Cover Type	16
16.	Western Nova Scotia 1977-80 Volume data in cubic metres by Ownership & Species	17

NOVA SCOTIA FOREST INVENTORY
PROVINCIAL SUMMARY
1975-82

Introduction

This report is a compilation of the most recent inventories for Nova Scotia presented on a provincial as well as a regional basis.

Method

The data consists of a combination of English and metric and strip cruise, 3P Dendrometry and Permanent Sample Plot Data. The following breakdown the dates, units and method:

Cape Breton - Permanent Sample Plot (metric) 1975-80
Eastern Subdivision - 3P Dendrometry (metric) 1981-82
North Central - Strip Cruise (metric) 1976
South Central - Hants Co. - 3P Dendrometry (metric) 1982
- Halifax Co. - Strip Cruise (Imperial) 1975
Valley - Strip Cruise (metric) 1977
South Shore - Strip Cruise (metric) 1978
Western - Strip Cruise (metric) 1979-80

The Cape Breton Island data is based on thethird measurement of 339 permanent sample plots, which were measured between 1975 - 80. This is the best source of data for Cape Breton and is more realistic than using the 1970 report data and these plots do reflect the changing conditions of the forest.

There has been three reports on a provincial basis since 1965. The first one covers the period 1965 - 71 and the second 1970, 1972 - 80 and this one 1975 - 82.

Since the data for this report has come from four different inventories and six sets of data, some data converted from Imperial units to metric and due to truncation of figures at various levels, totals from table to table will not agree exactly.

TABLE 1
Nova Scotia
1975-1982 Area Data in Hectares By
Ownership and Land Class

Land Class	Ownership (hectares) Crown	Large Private	Small Private	Federal	T o t a l
Softwood	656 790	441 180	995 430	60 700	2 154 620
Mixedwood	274 190	261 410	579 810	24 690	1 140 440
Hardwood	236 900	183 780	408 230	30 440	859 350
Total Forest	1 168 330	886 620	1 983 850	116 060	4 155 410
Non Forest	216 740	91 860	614 070	31 910	954 860
Water & Flowage	238 990	56 230	138 450	5 120	439 170
Total Non Forest	455 840	148 110	752 540	37 030	1 394 030
T O T A L	1 624 450	1 035 360	2 736 550	153 140	5 550 310
ha x 2.47 = acres (Total Acres)	(4,012,000)	(2,557,000)	(6,759,000)	(378,000)	(13,709,000)

TABLE 2
Nova Scotia
1975-1982 Area Data in Hectares By
Ownership and Age Class

Age Class	Ownership (hectares) Crown	Large Private	Small Private	Federal	T o t a l
Up to 20 years	80 160	68 680	108 920	470	258 970
21 - 40 years	117 960	96 790	312 450	11 350	539 190
41 - 60 years	399 020	280 110	754 220	15 720	1 449 380
61 - 80 years	333 810	262 910	530 330	45 540	1 173 180
81 - 100 years	135 530	69 500	114 200	23 570	343 370
101 + years	27 940	16 230	19 970	12 800	77 490
Uneven aged	72 220	91 020	141 900	6 090	311 880
T O T A L	1 168 180	886 720	1 983 760	115 960	4 155 410
ha x 2.47 = acres (Total Acres)	(2,885,000)	(2,190,000)	(4,899,000)	(286,000)	(10,263,000)

TABLE 3
Nova Scotia
1975-1982 Volume Data in Cubic Metres
By Ownership and Cover Type

Thousands of Gross Merchantable Cubic Metres

Cover Type	Species	Crown	Large	Small	Federal	T o t a l
Softwood	Softwood	34 574	31 060	66 567	3 841	136 056
	Hardwood	3 485	3 618	7 342	280	14 747
	Total	38 067	34 682	73 913	4 121	150 807
Mixedwood	Softwood	9 884	12 834	23 868	981	47 584
	Hardwood	8 772	8 085	16 250	943	34 068
	Total	18 661	20 922	40 121	1 923	81 658
Hardwood	Softwood	1 863	2 594	5 127	307	9 906
	Hardwood	11 313	10 181	25 074	1 883	48 073
	Total	13 177	12 384	30 203	2 192	57 982
T o t a l	Softwood	46 381	46 556	95 542	5 131	193 621
	Hardwood	23 611	21 546	48 952	3 112	97 359
	Total	69 997	68 104	144 495	8 244	290 973

m^3 x 0.4527 = cords

(TOTAL)	(Softwood)	(20,996)	(21,075)	(43,251)	(2,322)	(87,652)
(Cords)	(Hardwood	(10,688)	(9,753)	(22,160)	(1,408)	(44,074)
	(Total)	(31,687)	(30,830)	(65,412)	(3,732)	(131,723)

TABLE 4
Nova Scotia
1975-1982 Volume Data in Cubic Metres
By Ownership and Species

Species	Thousands of Gross Merchantable Cubic Metres				
	Crown	Large	Small	Federal	T o t a l
White Spruce	2 201	2 244	21 828	227	26 503
Spruce	17 510	26 436	30 711	887	75 550
Fir	20 001	10 768	31 845	2 741	65 360
Hemlock	864	2 068	5 306	338	8 577
White Pine	4 297	4 250	3 432	758	12 747
Red Pine	333	248	330	135	1 052
Larch	1 004	430	1 893	37	3 373
Jack Pine	142	38	163	--	340
Other Softwood	--	5	13	--	18
Total Softwood	46 367	46 509	95 532	5 130	193 550
(Total Swd. cords)	(20,996)	(21,075)	(43,251)	(2,322)	(87,652)
Sugar Maple	3 915	3 031	8 282	754	15 988
Red Maple	9 912	10 597	17 252	837	38 614
Yellow Birch	5 008	3 359	6 157	605	15 138
White Birch	2 012	1 745	3 878	339	7 988
Oak	940	663	737	276	2 625
Aspen	1 206	1 019	6 022	166	8 418
Grey Birch	36	56	394	2	502
White Ash	84	205	630	13	939
Black Ash	--	--	4	--	5
Cherry	3	3	12	--	23
Beech	388	734	4 499	103	5 727
Miscellaneous	21	57	801	6	904
Total Hardwood	23 553	21 492	48 710	3 111	96 880
(Total Hwd cords)	(10,688)	(9,753)	(22,160)	(1,408)	(44,074)
TOTAL ALL SPECIES	69 925	68 003	144 245	8 244	290 433
(Total cords)	(31,687)	(30,830)	(65,412)	(3,732)	(131,723)

m^3 x 0.4527 = cords

TABLE 5
Eastern Region
1975-1982 Area Data in Hectares by
Ownership and Land Class

Land Class	Ownership (hectares) Crown	Large Private	Small Private	Federal	T o t a l
Softwood	344 100	58 300	391 600	46 400	840 700
Mixedwood	100 100	25 600	168 000	10 300	304 300
Hardwood	111 800	39 700	184 300	23 200	359 000
Total Forest	556 400	123 700	744 000	80 000	1 504 500
Non Forest	102 660	13 210	176 960	23 850	316 790
Water & Flowage	62 420	2 140	45 520	1 560	111 660
Total Non Forest	165 180	15 360	222 490	25 410	428 450
T o t a l	721 500	139 100	966 400	105 400	1 932 400
ha x 2.47 = acres					
(Total acres)	(1,782,000)	(343,000)	(2,387,000)	(260,000)	(4,773,000)

TABLE 6
Eastern Region
1975-1982 Area Data in Hectares By
Ownership and Age Class

Age Class	Ownership (hectares) Crown	Large Private	Small Private	Federal	T o t a l
Up to 20 years	62 600	23 700	56 900	--	143 700
21 - 40 years	60 300	20 700	126 800	7 700	215 900
41 - 60 years	142 000	42 400	250 200	7 700	442 400
61 - 80 years	160 700	26 700	229 100	30 900	447 900
81 - 100 years	98 000	4 000	57 900	18 000	178 200
101 + years	21 500	400	14 400	12 800	49 400
Uneven aged	10 300	5 160	7 700	2 500	25 900
T o t a l	556 300	123 800	744 000	80 000	1 504 500
ha x 2.47 = acres					
(Total acres)	(1,374,000)	(305,000)	(1,837,000)	(197,000)	(3,716,000)

TABLE 7
Eastern Region
1975-1982 Volume Data in Cubic Metres
By Ownership and Cover Type

Cover Type	Species	Thousands of Gross Merchantable Cubic Metres Crown	Large	Small	Federal	T o t a l
Softwood	Softwood	19 269	3 524	28 921	2 874	54 602
	Hardwood	1 663	194	2 507	107	4 481
	Total	20 938	3 719	31 428	2 981	59 082
Mixedwood	Softwood	3 689	1 037	7 931	322	12 993
	Hardwood	4 531	631	5 370	510	11 057
	Total	8 221	1 668	13 301	831	24 051
Hardwood	Softwood	480	399	2 253	200	3 332
	Hardwood	5 485	1 747	13 842	1 425	22 511
	Total	5 966	2 146	16 095	1 625	25 845
T o t a l	Softwood	23 460	5 014	39 117	3 399	71 005
	Hardwood	11 754	2 631	21 968	2 046	38 530
	Total	35 214	7 646	61 084	5 444	109 527
m^3 x 0.4527 = cords						
(Total)	(Softwood)	(10,620)	(2,269)	(17,708)	(1,538)	(32,143)
(cords)	(Hardwood)	(5,321)	(1,191)	(9,944)	(926)	(17,442)
	(Total)	(15,941)	(3,461)	(27,652)	(2,464)	(49,582)

TABLE 8
Eastern Region
1975-1982 Volume Data in Cubic Metres
Ownership and Species

Species	Thousands of Gross Merchantable Cubic Metres Crown	Large	Small	Federal	T o t a l
White Spruce	1 636	703	13 818	225	16 388
Spruce	5 156	2 054	6 550	442	14 205
Fir	15 464	1 783	16 608	2 672	36 534
Hemlock	518	75	1 203	--	1 794
White Pine	358	234	316	57	966
Red Pine	--	--	97	--	97
Larch	314	113	513	6	941
Jack Pine	--	--	--	--	--
Other Softwood	--	5	--	--	5
Total Softwood	23 446	4 967	39 107	3 398	70 934
(Total Swd.cords)	(10,614)	(2,248)	(17,703)	(1,538)	(32,111)
Sugar Maple	3 248	683	5 854	752	10 538
Red Maple	3 086	1 128	5 752	428	10 398
Yellow Birch	4 219	403	3 503	584	8 712
White Birch	684	129	1 669	181	2 667
Oak	--	--	--	2	3
Aspen	207	147	1 433	6	1 794
Grey Birch					6
White Ash			77		77
Black Ash					
Cherry					
Beech	245	64	2 833	87	3 233
Miscellaneous	6	21	587		639
Total Hardwood	11 696	2 577	21 726	2 045	38 051
(Total Hwd Cords)	(5,294)	(1,166)	(9,835)	(925)	(17,225)
TOTAL ALL SPECIES	35 142	7 545	60 834	5 444	108 987
(Total Cords)	(15,908)	(3,415)	(27,539)	(2,464)	(49,338)

m^3 x 0.4527 = cords

TABLE 9

Central Region

1975-76, 1982 Area Data in Hectares by

Ownership and Land Class

	Ownership hectares				
LAND CLASS	Crown	Large	Small	Federal	Total
Softwood	163 110	203 710	327 230	560	694 740
Mixedwood	61 440	123 620	189 620	1 030	375 740
Hardwood	40 270	77 040	103 360	680	221 650
Total Forest	264 870	404 510	620 480	2 300	1 292 310
Non Forest Land	37 200	45 800	229 920	2 060	315 050
Water & Flowage	39 180	17 270	44 490	80	101 290
Total Non Forest	76 390	63 080	274 420	2 140	416 340
TOTAL	341 560	467 740	895 040	4 480	1 709 650
Total (Acres)	(843,000)	(1,155,000)	(2,210,000)	(11,000)	(4,222,000)

TABLE 10

Central Region

1975-76, 1982 Area Data in Hectares by

Ownership and Age Class

	Ownership (hectares)				
AGE CLASS	Crown	Large	Small	Federal	Total
Up to 20 years	10 230	31 950	28 360	100	70 880
21 - 40 years	25 860	38 550	72 180	200	137 010
41 - 60 years	86 880	111 180	234 830	1 400	434 500
61 - 80 years	80 350	120 250	172 250	500	373 430
81 - 100 years	17 990	36 140	26 310	--	80 700
101 + years	3 650	6 530	2 490	--	12 920
Uneven Age	39 240	59 190	83 220	--	182 050
TOTAL	264 820	404 510	620 390	2 200	1 292 310
Total (Acres)	(654,000)	(999,000)	(1,532,000)	(5,000)	(3,192,000)

ha x 2.47 = acres

TABLE 11
Central Region
1975-76, 1982 Volume Data in Cubic Metres
By Ownership and Cover Type

Cover Type	Species	Thousands of Gross Merchantable Cubic Metres Crown	Large	Small	Federal	T o t a l
Softwood	Softwood	9 004	15 523	22 440	18	46 985
	Hardwood	812	1 454	2 903	--	5 176
	Total	9 818	16 980	25 347	18	52 165
Mixedwood	Softwood	2 723	7 157	8 215	28	18 127
	Hardwood	1 874	4 191	5 545	22	11 635
	Total	4 600	11 351	13 763	50	29 766
Hardwood	Softwood	574	1 216	1 409	8	3 217
	Hardwood	2 131	4 527	5 669	29	12 355
	Total	2 705	5 747	7 080	38	15 573
T o t a l	Softwood	12 305	23 901	32 070	54	68 328
	Hardwood	4 820	10 177	14 121	51	29 172
	Total	17 129	34 078	46 193	106	97 501

m^3 x 0.4527 = cords

(T O T A L)	Softwood	(5,570)	(10,814)	(14,518)	(24)	(30,932)
(Cords)	Hardwood	(2,182)	(4,607)	(6,392)	(23)	(13,206)
	Total	(7,754)	(15,427)	(20,911)	(47)	(44,138)

TABLE 12
Central Region
1975-1976, 1982 Volume Data in Cubic Metres
Ownership and Species

Species	Thousands of Gross Merchantable Cubic metres Crown	Large	Small	Federal	T o t a l
White Spruce	306	1 001	3 989	--	5 299
Spruce	7 415	14 644	13 433	33	35 524
Fir	2 997	6 562	11 301	6	20 863
Hemlock	83	737	1 755	--	2 578
White Pine	963	712	724	2	2 402
Red Pine	96	47	55	--	202
Larch	291	141	646	11	1 098
Jack Pine	142	38	163	--	340
Other Softwood	--	--	--	--	--
Total Softwood	12 305	23 901	32 070	54	68 328
(Total Swd. Cords)	(5,570)	(10,814)	(14,518)	(24)	(30,932)
Sugar Maple	530	1 769	1 710	--	4 011
Red Maple	2 624	4 599	6 173	16	13 417
Yellow Birch	627	2 224	1 688	--	4 542
White Birch	575	710	834	15	2 142
Oak	68	33	91	--	198
Aspen	237	377	2 551	12	3 185
Grey Birch	22	41	228	--	298
White Ash	20	40	109	--	174
Black Ash	--	--	4	--	5
Cherry	3	--	3	--	10
Beech	79	337	517	--	935
Miscellaneous	14	32	191	6	236
Total Hardwood	4 820	10 177	14 121	51	29 172
(Total Hwd Cords)	(2,182)	(4,607)	(6,392)	(23)	(13,206)
TOTAL ALL SPECIES	17 129	34 078	46 193	106	97 501
(Total Cords)	(7,754)	(15,427)	(20,911)	(47)	(44,138)

m^3 x 0.4527 = cords

TABLE 13
Western Region
1977-1980 Area Data in Hectares
Ownership and Land Class

Land Class	Ownership (Hectares) Crown	Large Private	Small Private	Federal	T o t a l
Softwood	149 580	179 170	276 600	13 820	619 180
Mixedwood	112 650	112 190	222 190	13 360	460 400
Hardwood	84 830	67 040	120 570	6 560	279 020
Total Forest	347 060	358 410	619 370	33 760	1 358 600
Non Forest	76 880	32 850	207 190	6 000	323 020
Water & Flowage	137 390	36 820	48 440	3 480	226 220
Total Non Forest	214 270	69 670	255 630	9 480	549 240
T O T A L	561 390	428 520	875 110	43 260	1 908 260
ha x 2.47 = acres					
(Total Acres)	(1,386,000)	(1,058,000)	(2,161,000)	(106,000)	(4,713,000)

TABLE 14
Western Region
1977-1980 Area Data in Hectares By
Ownership and Age Class

Age Class	Ownership (Hectares) Crown	Large Private	Small Private	Federal	T o t a l
Up to 20 years	7 330	13 030	23 660	370	44 390
21 - 40 years	31 800	37 540	113 470	3 450	186 280
41 - 60 years	170 140	126 530	269 190	6 620	572 480
61 - 80 years	92 760	115 960	128 980	14 140	351 850
81 - 100 years	19 540	29 360	29 990	5 570	84 470
101 + years	2 790	9 300	3 080	--	15 170
Uneven Aged	22 680	26 670	50 980	3 590	103 930
T O T A L	347 060	358 410	619 370	33 760	1 358 600
ha x 2.47 = acres					
(Total Acres)	(857,000)	(885,000)	(1,529,000)	(83,000)	(3,355,000)

TABLE 15

Western Region

1977-80 Volume Data in Cubic Metres by

Ownership and Cover Type

Cover Type	Species	Ownership (thousands of gross merchantable cubic metres) Crown	Large	Small	Federal	Total
SOFTWOOD	Softwood	6 301	12 013	15 206	949	34 469
	Hardwood	1 010	1 970	1 932	173	5 090
	Total	7 311	13 983	17 138	1 122	39 560
MIXEDWOOD	Softwood	3 472	4 640	7 722	631	16 464
	Hardwood	2 367	3 263	5 335	411	11 376
	Total	5 840	7 903	13 057	1 042	27 841
HARDWOOD	Softwood	809	979	1 465	99	3 357
	Hardwood	3 697	3 512	5 563	429	13 207
	Total	4 506	4 491	7 028	529	16 564
TOTAL	Softwood	10 616	17 641	24 355	1 678	54 288
	Hardwood	7 037	8 738	12 863	1 015	29 657
	Total	17 654	26 380	37 218	2 694	83 945
m^3 x 0.452 7 = cords						
(TOTAL)	(Softwood)	(4,805)	(7,986)	(11,025)	(759)	(24,576)
(cords)	(Hardwood)	(3,185)	(3,955)	(5,823)	(459)	(13,425)
	(Total)	(7,991)	(11,942)	(16,848)	(1,219(	(38,001)

TABLE 16

Western Region

1977-80 Volume Data in Cubic Metres by

Ownership and Species

Thousands of Gross Merchantable Cubic Metres

SPECIES	Crown	Large	Small	Federal	Total
White Spruce	259	540	4 021	2	4 816
Spruce	4 939	9 738	10 728	412	25 821
Fir	1 540	2 423	3 936	63	7 963
Hemlock	263	1 256	2 348	338	4 205
White Pine	2 976	3 304	2 392	699	9 379
Red Pine	237	201	178	135	753
Larch	399	176	734	25	1 334
Jack Pine	0	0	0	0	0
Other Softwood	0	0	13	0	13
Total Softwood	10 616	17 641	24 355	1 678	54 288
Total Swd. (cords)	(4,805)	(7,986)	(11,025)	(759)	(24,576)
Sugar Maple	137	579	718	2	1 439
Red Maple	4 202	4 870	5 327	393	14 799
Yellow Birch	162	732	966	21	1 884
White Birch	753	906	1 375	143	3 179
Oak	872	630	646	274	2 424
Aspen	762	495	2 038	148	3 439
Grey Birch	14	15	166	2	198
White Ash	64	165	444	13	688
Black Ash	0	0	0	0	0
Cherry	0	3	6	0	11
Beech	64	333	1 148	16	1 561
Miscellaneous	1	4	23	0	29
Total Hardwood	7 037	8 738	12 863	1 015	29 657
Total Hwd. (cords)	(3,185)	(3,955)	(5,823)	(459)	(13,425)
TOTAL ALL SPECIES	17 654	26 380	37 218	2 694	83 945
Total (cords)	(7,991)	(11,942)	(16,848)	(1,219)	(38,001)

All Species

$m^3 \times 0.4527 =$ cords

POOR

QUALITY

ORIGINAL